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Felix Salfner, Maren Lenk, Mirosław Malek

 March 2010 **Computing Surveys (CSUR)** . Volume 42 Issue 3

Publisher: ACM [Request Permissions](#)

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With the ever-growing complexity and dynamicity of computer systems, approach to enhancing availability. Online failure prediction is the key to reliability methods, ...

Keywords: Error, failure prediction, fault, prediction metrics, runtime n

2 [CHI '06 extended abstracts on Human factors in computing systems](#)

Gary Olson, Robin Jeffries

 April 2006 **CHI '06**: CHI '06 extended abstracts on Human factors in co

Publisher: ACM

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Welcome to the CHI 2006 *Extended Abstracts*. We hope that you will en changes that we have made. For the first time this year, we encourage communities of the human-computer ...

3 [Proceedings of the 2008 ACM symposium on Applied computing](#)

Roger L. Wainwright, Hisham M. Haddad

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Publisher: ACM

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Welcome to the 23rd Annual ACM Symposium on Applied Computing (S to computer scientists, engineers, and practitioners seeking innovative i This year, the conference ...

4 [Fast online pointer analysis](#)

Martin Hirzel, Daniel Von Dincklage, Amer Diwan, Michael Hind

April 2007 **Transactions on Programming Languages and Systems**

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Full text available:  Pdf (430.96 KB)


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Pointer analysis benefits many useful clients, such as compiler optimization. However, common programming language features such as dynamic loading, reflection, and garbage collection make pointer analysis difficult. ...

Keywords: Pointer analysis, class loading, native interface, reflection

5 [Communications of the ACM: Volume 53 Issue 1](#)

 January 2010 Communications of the ACM

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Full text available:  Digital Edition ,  Pdf (8.09 MB) Additional Information: [full citation](#)

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6 [Persistent Code Caching: Exploiting Code Reuse Across Executions](#)

Vijay Janapa Reddi, Dan Connors, Robert Cohn, Michael D. Smith

March 2007 **CGO '07: Proceedings of the International Symposium on Co**

Publisher: IEEE Computer Society


Full text available:  Pdf (335.51 KB)

Additional Information: [full citation](#), [abstract](#)

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Run-time compilation systems are challenged with the task of translating code while maintaining low overhead. While software managed code caches are utilized, they are ineffective for programs with ...

7 [Communications of the ACM: Volume 52 Issue 2](#)

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Publisher: ACM


Full text available:  Digital Edition ,  Pdf (7.09 MB) Additional Information: [full citation](#)

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 July 2009 Communications of the ACM

Publisher: ACM

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9 [LLVM: A Compilation Framework for Lifelong Program Analysis & Tr](#)

Chris Lattner, Vikram Adve

March 2004 **CGO '04: Proceedings of the international symposium on Code generation, compilation, and runtime optimization**

Publisher: IEEE Computer Society


Full text available:  Pdf (256.90 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 286, Downl


This paper describes LLVM (Low Level Virtual Machine), a compiler framework for long-term program analysis and transformation for arbitrary programs, by performing compiler transformations at compile-time, ...

10 Formalizing the safety of Java, the Java virtual machine, and Java code

 Pieter H. Hartel, Luc Moreau

December 2001 **Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (442.86 KB)


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We review the existing literature on Java safety, emphasizing formal approaches for small footprint devices such as smartcards. The conclusion is that although concerted effort is ...


Keywords: Common criteria, programming

11 Dynamic software updating

 Michael Hicks, Scott Nettles

November 2005 **Transactions on Programming Languages and Systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (622.69 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 291, Downloads

Many important applications must run continuously and without interruption or upgrade functionality. No prior general-purpose methodology for dynamic software updating between flexibility, ...


Keywords: Dynamic software updating, typed assembly language

12 Selling online versus offline: theory and evidences from Sotheby's

 Eiichiro Kazumori

June 2003 **EC '03: Proceedings of the 4th ACM conference on Electronic Commerce**

Publisher: ACM  [Request Permissions](#)

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We consider a recent business and policy question of "how and why does the online market differ from offline markets?" using a unique dataset of more than 3000 auctions held in New York in June-July 2002. ...



Keywords: auctions, electronic commerce

13 Communications of the ACM: Volume 51 Issue 10

 October 2008 **Communications of the ACM**


Publisher: ACM

Full text available:



 Digital Edition ,  Pdf (7.16 MB) Additional Information: [full citation](#)

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15 [GPGPU: general purpose computation on graphics hardware](#)

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

Publisher: ACM 

Full text available:  Pdf (63.03 MB)

Additional Information: [full citation](#), [ab:](#)

Bibliometrics: Downloads (6 Weeks): 166, Downloads (12 Months): 1463, Dov


The graphics processor (GPU) on today's commodity video cards has ev
processor. The latest graphics architectures provide tremendous memor
with fully programmable vertex ...

16 [Dynamic Class Hierarchy Mutation](#)

[Lixin Su](#), [Mikko H. Lipasti](#)

March 2006 **CGO '06:** Proceedings of the International Symposium on Co

Publisher: IEEE Computer Society


Full text available:  Pdf (377.30 KB)

Additional Information: [full citation](#), [ab:](#)


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Class hierarchies in object-oriented programs are used to capture variou
represent, allowing programmers to encapsulate common attributes in t
in lower-level ...

17 [Vigilante: End-to-end containment of Internet worm epidemics](#)

 Manuel Costa, Jon Crowcroft, Miguel Castro, Antony Rowstron, Lidong Zhou
December 2008 **Transactions on Computer Systems (TOCS)** , Volume 26 I

Publisher: ACM 

Full text available:  Pdf (1.99 MB)


Additional Information: [full citation](#), [ab:](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 263, Downl

Worm containment must be automatic because worms can spread too fa
proposed network-level techniques to automate worm containment; the
no information about the vulnerabilities ...

Keywords: Worm containment, dynamic data-flow analysis, program a
condition slicing

18 [Communications of the ACM: Volume 51 Issue 9](#)

 September 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (8.68 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 310, Downloads (12 Months): 739, Down

19 [Communications of the ACM: Volume 52 Issue 9](#)

September 2009 Communications of the ACM



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Full text available:  Digital Edition ,  Pdf (7.28 MB) Additional Information: [full citation](#)

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